

Amendment to the Claims:

This listing of claims will replace all prior versions, and listing, of claims in the application. Please amend the claims without prejudice or disclaimer to read as follows:

Claims 1-55 (Cancelled).

56. (Currently Amended) A method for analyzing a communications network having a plurality of components, the method comprising:

obtaining a site-specific computerized model of a physical environment associated with the communications network;

obtaining information pertaining to each of the plurality of components that are used in said communications network from a parts list library, wherein at least some of said information obtained from the parts list library includes frequency-dependent characteristics of particular ones of the plurality of components, the frequency-dependent characteristics comprising a plurality of values for an operating characteristic of the particular component, each of the plurality of values describing the operating characteristic of the particular component at a different operating frequency;

modeling performance characteristics of the communications network based upon the information and the site-specific computerized model at a modeled operating frequency, wherein the modeling comprises automatically evaluating the particular components using one of the plurality of values for the operating characteristic of the particular component based upon the frequency-dependent characteristics obtained from the parts list library that corresponds to the modeled operating frequency; and

displaying the performance characteristics on a computer display.

57. (Previously Presented) The method of claim 56 wherein the information about each of the plurality of components is represented by a standard mark up language in said parts list library.

58. (Previously Presented). The method of claim 56 further comprising generating a bill of materials in response to the modeling.

59 (Previously Presented). The method of claim 56 wherein the modeling comprises modeling electrical performance of the communications network.

60 (Previously Presented). The method of claim 56 wherein the modeling comprises determining a cost of said communications network.

61 (Previously Presented). The method of claim 56 wherein the modeling comprises processing maintenance records of said communications network.

62 (Previously Presented). The method of claim 56 wherein the modeling comprises providing measurement of said communications network.

63 (Previously Presented). The method of claim 56 wherein the modeling comprises visualizing within said site-specific computerized model of said physical environment a configuration of said communications network.

64 (Previously Presented). The method of claim 56 wherein the modeling comprises verifying proper interconnections between the components.

65 (Previously Presented). The method of claim 56 wherein the modeling comprises identifying errors in interconnections in said communications network having said one or more components.

66 (Currently Amended). The method according to claim 56, wherein the displaying comprises automatically displaying in real time changes in the updated performance characteristics of the communications network on the display in response to a change in the modeled operating frequency of the particular components.

67 (Currently Amended). The method according to claim 66, wherein the step of displaying in real time comprises displaying changes in different coverage areas as the

modeled operating frequency changes, wherein each of the different coverage areas are computed using a different value for the operating characteristic that corresponds to the modeled operating frequency.

68 (Currently Amended). The method according to claim 67, wherein each of the plurality of values for the operating frequency dependent characteristic of the particular component [[is an]] corresponds to operation of the particular component at an operating frequency within one of a plurality of frequency bands.

69 (Currently Amended). The method according to claim 66, wherein the each of the plurality of values for the operating frequency dependent characteristic of the particular component [[is an]] corresponds to operation of the particular component at an operating frequency within one of a plurality of frequency bands.

70 (Previously Presented). The method according to claim 69, wherein the plurality of frequency bands correspond to a plurality of wireless standards.

71. (Currently Amended) A system for analyzing a communications network having a plurality of components, the system comprising:

an electronic storage configured to store a parts list library comprising information pertaining to each of the plurality of components, wherein at least some of said information includes frequency-dependent characteristics of particular components of said plurality of components, wherein the frequency-dependent characteristics comprise a plurality of values for an operating characteristic of the particular component, each of the plurality of values describing the operating characteristic of the particular component at a different operating frequency;

a processor configured to model performance characteristics of the communications network at an operating frequency based upon a site-specific model of a physical environment associated with the communications network and upon information obtained from the parts list library including the frequency dependent the values for the

operating characteristics for the particular components of the communications network that correspond to the modeled operating frequency; and

a display in communication with the processor that is configured to display the performance characteristics.

72. (Previously Presented) The system of claim 71 wherein the information about each of the plurality of components is represented by a standard mark up language in said parts list library.

73. (Currently Amended) The system according to claim 71, wherein ~~real-time changes in the updated~~ performance characteristics of the communications network are automatically displayed on the display in response to ~~a change~~ changes in the modeled operating frequency of [[a]] the particular component.

74. (Currently Amended) The system according to ~~claim 73~~ claim 71, wherein the display is further configured to display updated performance characteristics ~~the displaying in real-time displays changes in coverage of the communications network in response to changes in the modeled operating frequency, wherein each of the different coverage areas are computed using a different value for the operating characteristic that corresponds to the modeled operating frequency.~~

75. (Currently Amended) The system according to claim 74, wherein each of the plurality of values for the operating the frequency dependent characteristic of a particular component [[is an]] are values corresponding to operation of the particular component at an operating frequency within one of a plurality of frequency bands.

76. (Currently Amended) The system according to claim 73, wherein each of the plurality of values for the operating the frequency dependent characteristic of a particular component [[is an]] are values corresponding to operation of the particular component at an operating frequency within one of a plurality of frequency bands.

77. (Currently Amended) The system according to claim 76, wherein each of the plurality of frequency bands correspond to one of a plurality of wireless standards.

78. (New) A method for analyzing a communications network having a plurality of components that are each represented in a site-specific computerized model of a physical environment associated with the communications network, the method comprising:

obtaining information pertaining to each of the plurality of components that are used in said communications network from a parts list library, wherein at least some of said information obtained from the parts list library includes frequency-dependent characteristics of particular ones of the plurality of components, the frequency-dependent characteristics comprising a plurality of values for an operating characteristic of the particular component, each of the plurality of values describing the operating characteristic of the particular component at a different operating frequency;

modeling performance characteristics of the communications network based upon the information and the site-specific computerized model at a modeled operating frequency, wherein the modeling comprises automatically evaluating the particular components using one of the plurality of values for the operating characteristic of the particular component that corresponds to the modeled operating frequency; and

displaying the performance characteristics on a computer display.

79 (New). The method according to claim 78, wherein the displaying comprises automatically displaying updated performance characteristics of the communications network on the display in response to a change in the modeled operating frequency.

80 (New). The method according to claim 78, wherein the displaying comprises displaying different coverage areas as the modeled operating frequency changes, wherein each of the different coverage areas are computed using a different value for the operating characteristic of the particular component that corresponds to the modeled operating frequency.

81 (New). The method according to claim 80, wherein the each of the plurality of values for the operating characteristic of the particular component corresponds to operation of the particular component at an operating frequency within one of a plurality of frequency bands.

82 (New). The method according to claim 78, wherein the each of the plurality of values for the operating characteristic of the particular component are values corresponding to operation of the particular component at an operating frequency within one of a plurality of frequency bands.

83 (New). The method according to claim 82, wherein the plurality of frequency bands correspond to a plurality of wireless standards.

84 (New). The method of claim 82, wherein the frequency dependent characteristics of the selected specific component change in response to a change in said operating frequency from one to another of a plurality of gross frequency bands.

85 (New). The method of claim 83, wherein each of the plurality of gross frequency bands correspond to one of a plurality of wireless standards.

86 (New). The method of claim 78 wherein the particular ones of the plurality of components comprise an antenna, wherein the operating characteristic of the antenna represents a gain of the antenna, and wherein the plurality of values of the operating characteristic of the antenna comprises different values of the gain of the antenna for different operating frequencies of signals passing through the antenna.

87 (New). The method of claim 78 wherein the particular ones of the plurality of components comprise a cable, wherein the operating characteristic of the cable represents an attenuation, and wherein the plurality of values of the operating characteristic of the cable comprises different values of the attenuation for different operating frequencies of signals passing through the cable.